

### UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P. O. Box 1459
Alexandria, Virginia 22313-1450
www.uspto.puv

# NOTICE OF ALLOWANCE AND FEE(S) DUE

24247 759	90 08/27/2003			EXAMI	NER
TRASK BRITT P.O. BOX 2550				CLARK, S	HEILA V
SALT LAKE CITY	, UT 84110			ART UNIT	CLASS-SUBCLASS
				2815	257-701000
,	/			DATE MAILED: 08/27/2003	3
	THE DISTRICT OF THE PARTY OF TH	FIRST NAME	DINVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
APPLICATION NO. 09/8 <b>74</b> ,631	66/05/2001		е Моон	4368US (99-0959)	5108
TITLE OF INVENTION: F.	/	RAY CHIP SCALE PACKAGE	/		
	OLAH ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
APPLN. TYPE nonprovisional	SMALL ENTITY NO	\$20	\$0	\$20	11/28/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
  - □ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.





#### PART B - FEE(S) TRANSMITTAL

## Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

**Commissioner for Patents** Alexandria, Virginia 22313-1450 or Fax (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1) 7590 08/27/2003 24247 TRASK BRITT Certificate of Mailing or Transmission P.O. BOX 2550 I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below. SALT LAKE CITY, UT 84110 Date CONFIRMATION NO. ATTORNEY DOCKET NO. FIRST NAMED INVENTOR FILING DATE APPLICATION NO. 4368US (99-0959) Ow Chee Moon 06/05/2001 09/874.631 TITLE OF INVENTION: FLEXIBLE BALL GRID ARRAY CHIP SCALE PACKAGES DATE DUE TOTAL FEE(S) DUE PUBLICATION FEE ISSUE FEE SMALL ENTITY APPLN. TYPE 11/28/2003 \$20 \$0 \$20 nonprovisional NO CLASS-SUBCLASS ART UNIT EXAMINER 257-701000 2815 CLARK, SHEILA V Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. attorneys or agents. If no name is listed, no name will be printed. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (B) RESIDENCE: (CITY and STATE OR COUNTRY) (A) NAME OF ASSIGNEE ☐ individual ☐ corporation or other private group entity ☐ government Please check the appropriate assignee category or categories (will not be printed on the patent); 4b. Payment of Fee(s): 4a. The following fee(s) are enclosed: ☐ A check in the amount of the fee(s) is enclosed. ☐ Issue Fee ☐ Payment by credit card. Form PTO-2038 is attached. ☐ Publication Fee ☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number \_\_\_\_\_\_ (enclose an extra copy of this form). ☐ Advance Order - # of Copies Director for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. (Authorized Signature) (Date) NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

TRANSMIT THIS FORM WITH FEE(S)

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



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	T TOTAL TE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
APPLICATION NO.	FILING DATE		42 (OT IC (00, 0050)	5108
09/874,631	06/05/2001	Ow Chee Moon	4368US (99-0959)	
			EXAM	INER .
24247	7590 08/27/2003		CLARK, S	SHEILA V
TRASK BRITT				
P.O. BOX 2550			ART UNIT	PAPER NUMBER
SALT LAKE CIT	Y, UT 84110		2815	
		•		_
			DATE MAILED: 08/27/200	13

### Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 297 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 297 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/874,631	06/05/2001	Ow Chee Moon	4368US (99-0959)	5108
,			EXAM	NER
2.211	590 08/27/2003		CLARK, S	HEILA V
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SALT LAKE CITY, UT 84110			ART UNIT	PAPER NUMBER
			2815	
			DATE MAILED: 08/27/2003	3

#### Notice of Fee Increase on October 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on October 1, 2003. See Revision of Patent Fees for Fiscal Year 2004; Final Rule, 68 Fed. Reg. 41532, 41533, 41534 (July 14, 2003).

The current fee schedule is accessible from (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in view of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowance is to be filed on or after October 1, 2003 (or mailed with a certificate of mailing on or after October 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously-paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Effective October 1, 2003, 37 CFR 1.18 is amended by revising paragraphs (a) through (c) to read as set forth below.

Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

(b) Issue fee for issuing a design patent:

(c) Issue fee for issuing a plant patent:

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

Application No.	Applicant

09/874,631

Moon et al

Examiner

Notice of Allowability

Sheila V.Clark

Art Unit 2815



The MAILING DATE of this communication appears on the cover	er sheet with the correspondence address
All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. The initiative of the Office or upon petition by the applicant. See 37 CFR 1.3	nis application is subject to withdrawal from issue at 13 and MPEP 1308.
1. X This communication is responsive to the communication filed 7-1	1-03
2. X The allowed claim(s) is/are 1-33, 35, 36, 38-42, 52, and 53	
3. X The drawings filed on Jul 1, 2002 are accepted by the	
4. X Acknowledgement is made of a claim for foreign priority under 3	
a) ☑ All b) ☐ Some* c) ☐ None of the:	
1. X Certified copies of the priority documents have been receive	ved.
2 Certified copies of the priority documents have been receive	red in Application No
3. Copies of the certified copies of the priority documents have application from the International Bureau (PCT Rule 17.2)	ve been received in this national stage 2(a)).
*Certified copies not received:	
<ol> <li>Acknowledgement is made of a claim for domestic priority under</li> </ol>	35 U.S.C. § 119(e) (to a provisional application).
(a) $\square$ The translation of the foreign language provisional application	has been received.
6. Acknowledgement is made of a claim for domestic priority under	r 35 U.S.C. §§ 120 and/or 121.
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this commu noted below. Failure to timely comply will result in ABANDONMENT of this EXTENDABLE.	другия 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
7.   A SUBSTITUTE OATH OR DECLARATION must be submitted. Note th INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) to the submitted of the submitted	ne attached EXAMINER'S AMENDMENT or NOTICE OF why the oath or declaration is deficient.
8. CORRECTED DRAWINGS must be submitted.	
(a) ☐ including changes required by the Notice of Draftsperson's P	atent Drawing Review (PTO-948) attached
to Daner No	
(b) including changes required by the proposed drawing correcti approved by the examiner.	
(c) including changes required by the attached Examiner's Amer Paper No	
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should each sheet. The drawings should be filed as a separate paper with a transmitt	l be written on the drawings in the top margin (not the back) tal letter addressed to the Official Draftsperson.
9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOG attached Examiner's comment regarding REQUIREMENT FOR THE	GICAL MATERIAL must be submitted. Note the HE DEPOSIT OF BIOLOGICAL MATERIAL.
Attachment(s)	2 Notice of Informal Patent Application (PTO-152)
<ul> <li>1 ☐ Notice of References Cited (PTO-892)</li> <li>3 ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> </ul>	4 Interview Summary (PTO-413), Paper No.
Notice of Draftsperson's Patent Drawing neview (176 545),  5 X Information Disclosure Statement(s) (PTO-1449), Paper No(s)	6 X Examiner's Amendment/Comment
7 Examiner's Comment Regarding Requirement for Deposit of Biological	8 Examiner's Statement of Reasons for Allowance
Material	/ <i>[[S]]</i> , [A]
9 Other	SHEWAV.CLARK PRIMARY EXAMINE
	ART JINIT 2815